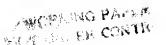
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LOGISTIC FACT BOOK
20 April 1907

Army Declass/Release Instructions On File Declassification/Release Instructions on File



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The purpose of this fact cook is to provide reference data relating to VC/NVA logistic requirements. The information contained in this book was compiled from documents, interrogation reports, FM TOL-10, DIA Logistic Briefing, 28 March 1966, and published intelligence documents.

All classes of supplies and type enemy units are referenced except Class III (Fuels and Lubricants). Class III requirements for in-country enemy forces are negligible. The small amount of Class III required is normally procured from in-country sources.

Class II and IV supplies and equipment relate primarily to clothing, equipment, and weapons. There is not enough information available to determine the expenditure rate of other Class II and IV (medical, signal, and engineer) supplies. A factor of .5 lbs per man, per day consumption rate for Class II and IV supplies (except weapons) is used for NVA units. A factor of .1 lbs per man, per day consumption rate for Class II and IV supplies (except weapons) is used for VC units. These factors are based on the DIA Logistic Briefing.

Levels of combat are used primarily as a logistic measure. Information currently available is insufficient to establish with any degree of certainty, the level of combat in which the enemy is currently engaged. It is astimated that the present level of combat is 1 day in 30. The fact book includes requirements for 1 day in 30, 2 days in 30 (1 in 15), and 3 days in 30 (1 day in 10).

Studies are in progress to provide a comprehensive and detailed plan of enemy logistic requirements. It is expected that these studies will provide data on classes of supplies, expenditure rates, and logistic organization which is not available in this fact book.

Computations include an accuracy to 2 and 2 decimal places. This merely reflects an attempt arithmetical accuracy and should not recessarily be construed as an accuracy in actual expenditures.

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DEFINITIONS

Level of Combat

The intensity of combat measured in terms of supply expenditures by class for purposes of computing enemy logistic reciprements.

3 days combat

expenditure by class of supplies as follows:

Class I - Combat ration

Class II & IV - Combat requirement (less weapons)

Class V - 2 basic load

Weapons - FWT factor.

1 days combat in 30

2 days combat in 30

(1 in 15)

Expenditure of supplies as follows:

Class I - 1 days combat ration, 29 days non-combat ration.

Class II and IV - 1 days combat requirement, 29 days non-combat requirement.

Class $V = \frac{1}{2}$ basic load.

Weapons - 5% FWT

Expenditure of supplies as follows:

Class I - 2 date combat ration, 2/ days noncombat rations.

Class II and IV - 2 days combat requirement, 2 days combat requirement.

Class V - 1 base load

weapons - 6. FaT

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d days combat in to (1 La 1)

Expanditure of supplies as Follows:

Class (- ; days comput ration, 27 days non-col : ritton.

Class of $\log TV + 3$ days combat requirement, T^{-1} by non-combat requirement.

Class V - 1 basic load

Jeapons - 7% P√T

mefers to Class V and that amount of ammunition stochpiled within the using unit for each W: pon assigned to the unit.

inclining combat, non-combat issue and supplemental fooms.

oupplies and equipment normally issued to the individual including wear ons. Also may include certain organizational atems.

fuels and lubricants for all purpos s except aircraft.

Normally includes special and misls and items of equipment as well as additional atoms over and above andividual issue

The energy robably distinguishes his supplies by the following breakdown:

Rations: (Three outpylies of the matter (Class II & TV) weapons and the motion: (Class V, Class II & TV)

POL: (Class Ill)

the average full chart tens of all plasses and supply required as a fitting a specified second of compat

Gasta Foad

Class I - Rations

*Class II

Class 111

*Class lv

snewy logistic classification

Daily supply rate

in nort assiblishmatical corporations of the ser more all lited to deep more in north assistants.

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Division equivalent

The equivalent in type units for Class V and weapons requirements

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CLASS I (Rations)

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CIASS II & IV (Jupply & Equipment)

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NVA S. FPLIES AND EQUIPMENT:

- 1. ron-Combat hequirement 0.5 #/man/day. *
- 2. Combat Requirement 0.5 g/man/day (additional) **
- 3. Requirements:

a.
$$\frac{1 \text{ day in } 50}{50}$$
: Combat $\frac{1 \times 1.0}{50} = \frac{1.0}{50}$

0.5167 #/man/day

15.5

b.
$$2 \text{ days in } 30$$
: Combat $2 \times 1.0 = 2.0$
Other $28 \times 0.5 = 14.0$

0.533 #/man/day

c. 3 days in 30: Combat
$$3 \times 1.0 = 3.0$$
Other $27 \times 0.5 = 10.5$
16.5

0.55 #/man/day

- * # = 1bs
 - .5 #/man/day is based on DIA Logistic Study, 28 March 66.
- It is estimated that for each day in combat Class II and IV requirements are doubled.

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Most frequently carried items by the NVA soldier

Uniform, khaki 1 or 2

Pajamas, black 1 or 2

Underwear 2 to 4 sets

cap, cotton

Sandals, rubber 1 pr

Straps, rubber 2

cotton sweater

Nylon tent

Nylon poncho

Belt leather

Rice Belt 2

Hammock

Mosquito net

Rucksack bag 1

Canteen

canteen cover

bowl, metal

Spoon 1

Web belt 1

Canvas pack

Rice bag

Ammo peuch

Medical kit

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Items of equipment sometimes issued to the NVA soldier

Towel

Socks

Knife

Snovel

Blanket

Protective mask

Flashlight

Batterics

Cartridge belt

Boots

Jacket

Shoes

Shorts

Rubber boots

Field coat

Fatigues

Ное

Lighter

Cooking pan

Salt bag

Kettle

Nachete

Document bag

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NVA MEDIÇAL (Personal)

| | | PERIODIC REISSUE |
|---|-------------------|------------------|
| ITEM* | AMOUNT | PERIODIC REMOSES |
| Vitamin B ₁ pills | 30-60 | as appropriate |
| Vitamin C pills | 30-60 | as appropriate |
| Bandages, cotton rolls | . 2 | as appropriate |
| Tiger balm | 1 bottle | as appropriate |
| Quinine pills | 20–40 | as appropriate |
| Water purification pi | 11s 30-6 0 | as appropriate |
| Dysentary pills | 20-40 | as appropriate |
| Malaria pills | 30–60 | as appropriate |
| Permanganate of potta | ssium 1 bottle | as appropriate |
| Head ache pills | 20-40 | as appropriate |
| *************************************** | • | . 1 |

^{*} Infiltrators often receive only partial amounts of the above listed medical equipment.

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VC SUFFILES AND EQUIPMENT:

- Non-Combat Requirement 0.1 #/man/day.
- 2. Combat Requirement 0.1 #/man/day (additional)
- 3. Requirements:

a.
$$1 \text{ day in } 30$$
: Combat $1 \times 0.2 = 0.2$
Other $29 \times 0.1 = \frac{2.9}{3.1}$

0.1033 #/man/day

b. 2 days in 30: Combat
$$2 \times 0.2 = 0.4$$
Other $28 \times 0.1 = \frac{2.8}{3.2}$

0.1067 #/man/day

Combat
$$3 \times 0.2 = 0.6$$
Other $27 \times 0.1 = \frac{2.7}{3.3}$

0.1100 #/man/day

Most commonly carried VC equipment

Khaki uniform 1 or 2

Black pajamas 1 or 2

Underwear 2 sets

Sandals (rubber) 1 pr

Rice belt 1

Mosquite net 1

Nylon sheet (poncho/tent) 1

Shorts 1 pr

Hammock 1

Towel 1

Rucksack 1



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Items of equipment sometimes carried by the VC

Sandal straps 1 pr

Leather belt 1

Cotton blanket 1

Shovel 1

Duffle bag 1

Cap or Bamboo helmet 1

Field pack 1

Fatigue uniform 1

Sweater 1

Shirt 1

Centeen 1

Rice bag 1

Cartridge pouch 1

Mosquito ber 1

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VC Equipment Reissue Intervals

Khaki uniform annual

Black pajamas annual

Underwear annual

Hammock every 1 to 3 years

Sweater annual

Mesquite net every 1 to 3 years

Canteen every 1 or 2 years

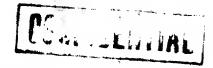
Sandals annual

Plastic nylon sheet amual

Rice belt annual

Towel annual

Items of equipment not listed are replaced as appropriate.



GONF DEN

Weights of items of equipment as determined by CMEC

| l ea uniform, khaki | | 1 1b 12½ oz |
|---------------------------------------|----------|-------------------|
| l ea uniform, pajama, black | | 14 3/4 oz |
| 2 sets underwear | | 102 02 |
| l ea hammock | | 1 1b 7 oz |
| l ea sweater | | 94 08 |
| l ea pack, field | • | 1 1b 9 oz |
| l ea net, mosquito | | 11 oz |
| 1 ea canteen | • | 9 05 |
| l ea belt, pistol | \$ + # | 71 oz |
| 1 pr rubber tire sandals | 10 m | 1 lb 10½ os |
| 1 ea cap, cloth | | 3 2 oz |
| 2 ea sheet, plastic nylon | , | 2 lb 2½ os |
| 1 ea pouch, ammo | • : | 6 03 |
| 1 pr socks | ż | 2 2 os |
| 1 ea cover, canteen | • | 2 3 oz |
| 2 ea bandolier, rice (rice belt) | | 91 oz |
| l ea bowl, steel, eating | 200 | 4 08 |
| 1 sa spoon | <u>:</u> | 1 3/4 08 |
| 1 ea cup, canteen | | L oz |
| 1 ea pouch, grenade | - | 7 02 |
| l ea belt, trousers | | 2' o≇ |
| · · · · · · · · · · · · · · · · · · · | ri. | * * |



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CLASS V (Ammo)

Class II (Weapons)

| | | | | | · · |
|---------|------------------------------|----------------|------------|-----------------------|----------|
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| ii. | 40025 | 382285 | 22 | | * |
| O 54 | m (4) \(\times \(\times \) | 20 C C C C C C | | | |

| Nomenclature | Number Per Battalion | Weight Per Weapon | Total Weapon Weight | Basic Load | Weight Rd | Weight Load | Total Ammo Weight day |
|--|---|---|---|--|--|--|---|
| K-54 Pistol AK-47 SMG SKS Rifle RPD AR RP-46 LMG RPC-2 AT 82mm Mort 75mm RR SGM HMG Grenades | 24 123 278 278 29 27 29 | 1.9 9.48 8.49 15.6 28.7 6.3 123.0 143.5 30.42 | 45.6 1,166.0 2,360.2 421.2 258.3 170.1 369.0 430.5 | 24 306 100 600 800 20 20 20 20 20 | 0.0243 0.0361 0.0361 0.050 4.0 7.28 20.35 0.050 | 0.583 10.83 3.61 21.66 47.0 32.0 145.6 45.0 1106.0 | d For Pole ase 2002/08/16::00 16::00 16::00 17::00 |
| TOTAL SHOAT TOÑS | 264 | 2N 2 | 5,312.2 2.6561 | (Wt) | Basic Load | 1 1 1 1 1 | CIA-RDP788 |

NVA-REGIMENTAL BATTALLON

| Approved For Palease | 000000000000000000000000000000000000000 | | | - |
|-----------------------|---|------------------|----------------------|----|
| ANNOUNCE FOR THE COSE | - 20002/08/16 · 1 1/ | _レコレノメミロフォル | 4006161711111 KNING. | _• |
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| | | | | |

| Nomenc | Nomenclature | Number Per Battalion | Weight Per weapon | Total Weapon Weignt | Basic Load | weight Rd | weight Load | Total Amno Weight |
|---|--------------------------------|---|---------------------------------------|--|------------------------------------|---|--|---|
| X-54 AK-47 SKS 120mm 82mm R7 TCTAL | Pistol ENG Rifle Wort | 19 49 82 6 12 168 | 1.9 9.48 8.49 606.0 123.0 | 36.1 465.4 696.1 3,636.0 1,476.0 | 24 300 100 20 20 20 | 0.0243 0.0361 0.0361 35.05 7.28 | 0.583 10.83 3.61 701.0 145.6 | 11.17 530.7 296.0 4,206.0 1,747.0 |
| SHORT TONS | CONS | * 1 * * * * * * * * * * * * * * * * * * | - | 3.1548 | ,) | (wt) Basic Load | !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! | -3.3955 |

NVA-MORTAR BATTALLON

| S | |
|-----------------------------|---|
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|-----------------------------|-------------------------------------|------------------|
| Total Ammo | Felease 2002 | 8,062.7 |
| Weight Per Load | 0.583 10.83 3.61 407.0 | 1 1 1 1 |
| W eight Per nd | 0.0243 0.0361 0.0361 20.35 | Foad |
| Basic Load | 24 300 100 20 | (wt) Basic Load |
| Total Weapon Weight | 36.1 293.9 916.9 2,583.0 | 3,829.9 |
| Weight Per Weapon | 1.9 9.48 8.49 143.5 | |
| Number Fer Battalion | 19 31 106 18 | 176 |
| ature | Pistol SWG Rifle RR | TONS |
| Nomenclature | K-54 AK-47 SK5 75mm | SHURT I |

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|----------------------------|-------------------------------------|----------|---------------------------------------|--------|-------|--|--|--|
| Total Ammo Weight | 11 7 498 8 559 9 5,567 0 | 6,571. | - 5-1656 | · | | : | · 茂· | 27 - 38 - 1 - 1-1-2- HARE |
| weight Fer Load | 5.583 10.83 3.61 5.9.0 | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | PARTY OF THE CHARLES OF THE CASE OF THE CA |
| Weight Per Ed | 0.0243 0.0361 0.0361 0.309 | | r r peor o | | | 機関・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・ | The state of the s | の |
| Basic Load | 24 300 100 1,000 | | (wt) Basic Load | | | - | | e en |
| Total Weapon Weight | 36.1 436.1 611.3 6,255.0 | .7,338.5 | 3.6693 | | Cá | . खे । २० | | |
| Weight Per Weapon | 1.9 9.48 8.47.5 | | | | | | | (株) |
| Number Fer Eattalion | 19 46 72 18 | 155 | | | : | - <i>r</i> | THE PART OF THE PA | राम्प्रतान के हुंके हुंहें ने महिला महिला थीं ने ने प्रकृति के महिला महिला के महिला महिला के महिला महिला के अन |
| 0 | Fistol 1 SMG 4 Rifle 7 | 1, | 3 | | 1.1 | • • • • • • • • • • • • • • • • • • • | The state of the s | 14 Will ge designed Statement of Mark |
| Nomenclature | 6-54 ak-47 skis 12.7mm | 3 | CAUIT TUNS | | | . # | | 新 爾(11/4 |

NVA - AAA BATTALION

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| | | ŀ | | | w/new :amily | <u>Vi</u> | |
|--|---------------------------------------|-------------------------|---------------------------|----------------|---------------------|-----------------------|---------------------------|
| Nomenclature | Number Per Battalion | Weight Fer Weapon | Total Mespon Weight | Basic Load | Weight Per Rd | wei⊽ht Fer Load | Ammo Weight (Total) |
| 1 f 0 | , | | * | | | | |
| 7 Distol | 80 | 1.9 | 43.7 | 77. | 0.0243 | 0.583 | 13.4 |
| 10.74 |) [| 8776 | 1.080.7 | 300 | 0,0361 | 10.83 | 1,234.6 |
| 4 7 | 25. | 8.49 | 2,156.5 | 100 | 0.0361 | १.६ | 6.916 |
| CAC | 100 | 15.6 | 421.2 | 009 | 0.3561 | 21.66 | 554.8 |
| - '- | ~ (3) } ~ | 7 | 113.4 | ₩ | 0.4 | 0 | 576.0 |
| 14 7 20 12/1 | 2 ~ | 28.7 | 172.2 | 800 | 0.050 | 0.05 | 540°0 |
| nr 140 |) ਵਾ | 78.3 | 234.9 | 50 | 5.7 | 114.0 | 342°C |
| | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 1.4.5 | 267.9 | 02 | 3.3 | 0.99 | 396.0 |
| | • | 123.0 | 277 | 20 | 7.28 | 245.6 | 291.2 |
| | . U | 30.42 | 91.3 | 006 | 0.05 | 72.0 | 135.0 |
| Grenade |) | | | 1,000 | 0.79 | 0.067 | 790.0 |
| Tyunia DP78 | 456 | | 4,826.9 | | | | 5,519.9 |
| Stort John | | | 2,4135 | (Wt)Basic Load | Losd | 1 1 1 1 | - 2.7599 |
| | | | 2 | | | | |

VC MAIN FORCE BATTALION

L. Jan

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| | | , | | 20 | VC MORTAR BATTALION - 82mm | ICN - 82mm | | | |
|----------------------|-----------------------|----------------------------|----|-------------------------|----------------------------|-----------------------|--------------------------|-------------------------|----------------|
| Nomenclature | ature | Number Per Battalion | | Weight Per Weapon | Total Weapon Weight | Ba sic Load | Weight Per Ro | Weight Fer Load | Total Ammo |
| 82m X-54 AX-47 | Mort Pistol SMG | 123 | 12 | 123.0 | 1,476.0 | 25 300 300 | 7.28 0.0243 0.0361 | 145.6 0.583 10.83 | 1,747.2 |
| TOLY | PT TY | 777 | | ε • 4γ | 2,360.7 | 001 | 7960 * 0 |)• 61. | 2,344.3 |
| K-44 | SMC Rifle | 33 | | 8.3 8.9 | 273.9 | 175 | 0.0243 | 4.25 | 140.3 320.0 |
| TOTAL | AL | 124 | | | 2,348.0 | | | | 2,216.2 |
| AVS TOTAL | Tr | 124 | 1 | | 2,354.4 | · | | | 2,280.3 |
| OHORT TONS | ONS | | | | 1.1772 | (Wt) Easic Load | peo | † † † † | 1.1401 |

VC - RECOILLESS RIFLS BATTALLON

the next

| Nomenclature particulature | Number Fer Battalion | Weight Fer Weapon | Total Wenpon | Basic | weight Per Rd | Weight Fer Load | Total Armo Seight |
|-------------------------------|----------------------------|-------------------------|-----------------|------------------|---------------------|--|-------------------------|
| | | | | | | and desiring and desiring any case care called | |
| R Sman | -# ' | 143.5 | 574.0 | 8 | 20,35 | 707.0 | 1628.0 |
| a | യ | £ . 37 | 4.929 | 80 | 5.7 | 114.0 | 912.0 |
| -# | 57 | 1.9 | 78.87 | 24 | 0.0243 | 0,583 | t |
| 7.4 | 77 | 84.6 | 199.1 | 300 | 0.0361 | 10.83 | 227.4 |
| - | 474 | 67.3 | 628.3 | 100 | 0,0361 | eret Nii Nii Nii | 267.1 |
| TOTAL | 122 | | 2,056,2 | ۰ | , | | 3,043.2 |
| 15 SMS 05-y 6 | 17 | 8.3 | 174.3 | 175 | 0.0243 | 77.7 | 80,3 |
| Z K-44 Rifle | 77 | 8 . 9 | 9.859 | 100 | 0.05 | 0 | 370.0 |
| DA-TCTAL | 122 | | 2,061.7 | | | | 3,000.0 |
| 882d FOTAL | 122 | | 2,058.9 | | | | 3,025.6 |
| SWILL LYONS | | | 1.0295 | .(Wt) Basic Load | Load | . ! ! | 1.5128 |

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| Nomenclature parameter | Number Per Battalion | Weight Par Wearon | Total Weapon Weight | Basic Load | Weight Per Rd | Weight Fer Load | Total Ammo Weight |
|--|----------------------------------|-----------------------------|-----------------------------------|----------------------------|---------------------------|---------------------------------|---------------------------|
| L2.7mm HMG L2.7mm HMG See See Fistol See SKS Rifle | 21 22 25 20 20 20 | 83.5 1.9 9.48 8.49 | 1,002.0 28.5 293.9 424.5 | 1,000 24, 300 100 | 0.309 0.0243 0.0361 | 309.0 0.563 10.83 3.61 | 3,708.0 ° °.7 335.7 180.5 |
| 2002/ | 108 | ş. | 1,748,9 | | | | 4,232.9 |
| 8 K-50 SMG 9 K-44 Rifle :: | 31 50 | 6 8 8 | 257.3 | 175 | 0.0243 | 4.25 | 131.8 |
| CIA-I | 108 | | 1,732.8 | | | | 4,098.5 |
| ADAVA POTAL | 108 | | 1,740.8 | | | | 4.165.7 |
| 880 TONS | | = - | 0.8704 | (Wt) Basic Load | Load | † | -2.0629 |

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|----------------------------|---|--|
| Total Amno Weight | 2.9 110.5 1,010.6 381.0 381.0 240.0 570.0 553.0 4,517.4 4,517.4 | AND DESCRIPTION OF THE PROPERTY OF THE PROPERT |
| weight Fer Load | 0.583 4.25 5.0 20.0 22.0 111.0 66.0 145.0 553.0 | - 一番の一部の一番の一番の一番の一番の一番の一番の一番の一番の一番の一番の一番の一番の一番の |
| Weight Fer Ed | 0.0243 0.0243 0.05 4.0 0.05 5.7 7.15 3.3 7.15 0.79 | na i and deline ej la o i como sobrema de como de describito a constanta a |
| Basic Load | 24, 175, 100, 400, 3, 800, 20, 20, 20, 900, 700, 700, 700, 700, 700, 700, 70 | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |
| Total Weapon Weight | 215.8 1,797.8 591.8 75.6 172.2 469.8 257.0 346.0 182.5 4,178.0 | · 4') |
| Weight For weapon | 8.3 8.3 26.9 26.9 78.3 78.3 78.3 30.42 | - 三年 |
| Number Per Battalion | 25 202 22 22 22 5 6 6 6 6 7 | PERSONAL PROPERTY OF A STATE OF |
| | istol SMG Rifle AT Nort HMG MS | Int. Manual Co. 1. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |
| Nomenclature | K-54 K-54 K-50 DFM DFM Comm 60mm 60mm 60mm Comm Comm Comm Comm Comm Comm Comm C | - + Marie |

VC - LOCAL FORCE BATTALLON

Approved For Release 2002/08/16 : CIA-RDP78S02149R000200130006-9

| Total ammo weight | For F elease 2002/08/16 | 1,654.0 | -0.927 | | * 7 | : | s energy #################################### |
|--|--|---------|-----------------|---|---------------------------------------|--|--|
| eight Fer Load | 0.583 10.23 3.61 3.61 66.0 66.0 545.0 | | 1 1 1 1 1 1 1 1 | | | A SCHARGE III A 6 II | ■० स्थापन । प्रत्यस्य प्रकास्य (तास्त्रः) प्रशासन्तास्य स्थापनी सेतास्य |
| welent Fer Rd | 0.0243 0.0361 0.0361 4.0 4.0 5.7 3.3 7.15 0.79 | • | Load | | * * * | | ्त्र स्थानसम्बद्धाः सेन्यम् सम्बद्धाः सम्बद्धाः सम्बद्धाः सन् । श्रीकृष्टाः सम्बद्धाः सम्बद्धाः सम्बद्धाः सम्बद्धाः |
| Basic Load | 200 100 200 200 200 200 200 200 200 200 | | (Wt) Basic Load | | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | 報子の 2000年 日本 |
| Total Weapon Weirnt | 13.3 284.4 152.8 182.8 234.9 133.5 | 1,233.9 | · 0•c17 | • · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | | E BERT HE STATE OF THE BERT ST |
| weight Fer Weapon | 1.9 9.48 3.49 6.3 78.3 44.5 132.0 | • | | | | The state of the s | · · · · · · · · · · · · · · · · · · · |
| Number Fer Battalion | 7.00 m w w w w w w w w w w w w w w w w w w | 29 | | 2 2 3 4 4 2 | e f | Tree significant | 東 (編集 10月 東京の Respublic (東東) して、近 |
| ÷ | Fistol SMG Rifle AT RW Mort | | TONS | | | | |
| Description of the period of t | 75-19-19-19-19-19-19-19-19-19-19-19-19-19- | IAI. CI | A-RDP7 | 78S021 | 149R0002 | 2001300 | 006-9 |

| Approved F | or ease 2002/08/16 | : CIA- |
|----------------------------|--|------------------|
| Potal Aumo Meight | 102.0 200.0 120.0 30.0 66.0 111. | 0.3185 |
| eignt Fer Load | 5.0 5.0 15.0 27.0 27.0 27.1 | 1 1 |
| weight Fer Ed | 0.0243 0.05 0.05 0.05 0.05 0.79 | peor |
| Basic Load | 175 100 300 600 20 20 150 | (Wt) Basic Load- |
| Potal weapon Weight | 199.2 356.0 215.2 25.6 44.5 | C.4218 |
| weight Fer Weapon | 8.3 26.9 28.6 44.5 | |
| Number Fer Battalion | 70 8 T T 72 | |
| Nomenclature | Lor Service Se | SHOUT TONS |

Approved For Release 2002/08/16 : CIA-RDP78S02149R000200130006-9

Approved For lease 2002/08/16 : CIA-RDP78S0214 Pc00200130006-9

WEAPORE HERELAGINET AND ADMINITION HYPERDITURE

Approved For Palease 2002/08/16: CIA-RDP78S0214 Pc00200130006-9

WHILICIANT AND EXPANTIUSE:

1. NVA Battalion:

a. Replacement:

1 day in 30
$$\frac{2.6561 \times 0.05}{30} = \frac{0.004 t^{T}/p}{30}$$
2 days in 30
$$\frac{2.6561 \times 0.06}{30} = \frac{0.0053^{T}/p}{30}$$
3 days in 30
$$\frac{2.6561 \times 0.07}{30} = \frac{0.0062^{T}/p}{30}$$

b. Ammunition Expenditure/day of combat

Formula:

Basic Load of Ammc =
$$T/D$$
 $\frac{3.5287}{2\times30} = 0.0568^{T}/D$ for 1 day in 30

2. NVA Mortar Battalion:

a. Replacement:

1 day in 30
$$\frac{3.1548 \times 0.05}{30} = \frac{0.0053^{T}}{D}$$
2 days in 30
$$\frac{3.1548 \times 0.06}{30} = \frac{0.0063^{T}}{D}$$
3 days in 30
$$\frac{3.1548 \times 0.07}{30} = \frac{0.0074^{T}}{D}$$

b. Ammunition expenditure/day in combat

* Tons Daily

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3. Wa kecoilless hifle Rattalion:

a. haplacement:

$$\frac{1.9149 \times 0.05}{30} = 0.0032^{\text{T}}/\text{D}$$

$$\frac{1.9149 \times 0.07}{30} = \frac{0.0045 \%}{1.9149 \times 0.07}$$

b. Ammunition Uxpenditure/day of combat

$$\frac{4.0314}{2\times30} = 0.0672^{\text{T}}$$

4. NVA AAA Battalion:

a. heplacement:

1 day in 30
$$3.6693 \times 0.05 = 0.0061 \text{ } 0.0061 \text{ }$$

2 days in 30
$$\frac{3.6693 \times 0.06}{30} = \frac{0.0073 \text{T/c}}{30}$$

3 days in 30
$$\frac{3.6693 \times 0.07}{30} = 0.0086^{\text{T}}/2$$

b. Ammunition expanditure/day of combat

$$\frac{3.1656}{2x30} = 0.0528^{\text{T}}/_{\text{D}}$$

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5. VC Main Force Battalion:

$$\frac{2.4866 \times 0.05}{30} = \frac{0.0041 \text{ T/D}}{}$$

$$\frac{2.4866 \times 0.06}{30} = \frac{0.0050 \text{ T/D}}{30}$$

$$\frac{2.4866 \times 0.07}{30} = \frac{0.0058}{10}$$

b. Annumition expensiture/day of combat

$$\frac{2.6482}{2x30} = \frac{0.0441 \text{ T/I}}{2}$$

6. VC Mortar Battalion

a. Replacement

$$\frac{1.1772 \times 0.05}{30} = \frac{\text{C.0020 T/D}}{}$$

$$\frac{1.1772 \times 0.07}{30} = \frac{0.0027 \text{ T/D}}{30}$$

b. Ammunition expenditure/day of combat

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7. VC Recoilless Rifle Battalion:

a. Replacement:

1 day in 30
$$\frac{1.0295 \times 0.05}{30} = \frac{0.0017 \text{ T/D}}{30}$$

2 days in 30
$$\frac{1.0295 \times 0.06}{30} = \frac{0.0021 \text{ T/D}}{30}$$

3 days in 30
$$\frac{1.0295 \times 0.07}{30} = \frac{0.0024 \text{ T/D}}{30}$$

b. Ammunition Expenditure/day of combat

$$\frac{1.5128}{2\times30} = \frac{0.0252 \text{ T/D}}{}$$

8. VC AAA Battalion:

a. Replacement:

1 day in 30
$$\frac{0.8704 \times 0.05}{30} = \frac{0.0015 \text{ T/D}}{30}$$

2 days in 30
$$\frac{0.8704 \times 0.06}{30} = \frac{0.0017 \text{ T/D}}{30}$$
3 days in 30
$$\frac{0.8704 \times 0.07}{30} = \frac{0.0020 \text{ T/D}}{30}$$

b. Ammunition expenditure/day of combat

$$\frac{2.0829}{2x30} = \frac{0.0347 \text{ T/T}}{2}$$

VC Local Force Battalion:

a. Replacement:

Ammunition expenditure/day of combat

$$\frac{2.2597}{2\times30} = \frac{0.0376 \text{ T/D}}{}$$

Sapper Battalion: 10.

heplacement:

Replacement:
1 day in 30
$$\frac{0.617 \times 0.05}{30} = \frac{0.0010 \text{ T/D}}{30}$$

2 days in 30 $\frac{0.617 \times 0.06}{30} = \frac{0.0012 \text{ T/D}}{30}$
3 days in 30 $\frac{0.617 \times 0.07}{30} = \frac{0.0014 \text{ T/D}}{30}$

Ammunition expenditure/day of combat

$$\frac{0.927}{2x30} = \frac{0.0155 \text{ T/D}}{2}$$



ll. 100 Man Slice - Company, Platoon, Irregular:

a. Replacement:

1 day in 30
$$\frac{0.4218 \times 0.05}{30} = \frac{0.0007 \text{ T/I}}{30}$$

2 days in 30
$$\frac{0.4218 \times 0.06}{30} = \frac{0.0008 \text{ T/D}}{30}$$

3 days in 30
$$\frac{0.4218 \times 0.07}{30} = \frac{0.0010 \text{ T/D}}{30}$$

b. Ammunition expenditure/day of combat

$$\frac{0.3183}{2x30} = \frac{0.0053 \text{ T/D}}{2}$$

NVA DIVISION

- 1. 12,000 men
- 2. <u>Division Equivalent</u>* 15 Inf Bn 1 Mtr Bn 1 AAA Bn 1 AAA Bn
- 4. Weapons Replacement (short tons per day)
 - 1 day in 30 5%

$$\frac{48.6105 \times 0.05}{30} = \frac{0.0802 \text{ T/D}}{30}$$

2 days in 30 - 6%
$$\frac{48.6105 \times 0.06}{30} = \frac{0.0962 \text{ T/D}}{30}$$

3 days in 30 - 7%
$$\frac{48.6105 \times 0.07}{30} = \frac{0.1122 \text{ T/D}}{30}$$

5. Ammunition Expenditure/day of combat (short tons per day)

* Division Equivalent = The equivalent in type units for Class V and weapons requirements

VC DIVISION

- 1. 10,500 men
- 2. <u>Division Equivalent*</u>
 15 Inf Bn
 1 Mtr Bn
 1 RR Bn
 1 AAA Bn
- 3. Weight of weapons (short tons) 15 x 2.4866 = 37.2990 1 x 1.1772 = 1.1772 1 x 1.0295 = 1.0295 1 x 0.8704 = $\frac{0.8704}{40.3761}$ short tons
- 4. Weapons replacement (short tons per day)
 - 1 day in 30 5%

$$\frac{40.3761 \times 0.05}{30} = \frac{0.0673 \text{ T/D}}{30}$$

- 2 days in 30 6% $\frac{40.3761 \times 0.06}{30} = \frac{0.0808 \text{ T/D}}{30}$
- 3 days in 30 7% $\frac{40.3761 \times 0.07}{30} = \frac{0.0942 \text{ T/D}}{30}$
- 5. Ammunition expenditure/day of combat (short tons per day)

15.
$$\times 2.6482 = 39.7230$$

1 $\times 1.1401 = 1.1401$
1 $\times 1.5128 = 1.5128$
1 $\times 2.0892 = 2.0829$
44.4588

$$\frac{44.4588}{2x30} = \frac{0.7410 \text{ T/D}}{2x30}$$

* Division Equivalent - the equivalent in type units for Class V and weapons requirements

REQUIREMENTS BY CLASS AND TYPE UNITS

REQUIREMENTS

| NVA Division - 12,000 Men | | | | | | | | |
|---|------------------|-----------------|---------|--|--|--|--|--|
| | <u>l in 30</u> ° | 2 in 30 | 3 in 30 | | | | | |
| Rood | 11.6880 | 11.7420 | 11.7900 | | | | | |
| Squipment | 3.1000 | 3.2000 | 3.3000 | | | | | |
| Weapons | 0.0842 | 0.1011 | 0.1179 | | | | | |
| Ammunition | 1.1015 | 2.2030 | 3.3045 | | | | | |
| TUTAL (short tons daily) (Short tons less Food) | 15.9737 | 17.2461 | 18.5124 | | | | | |
| | 4.2857 | 5.5041 | 6.7224 | | | | | |
| NVA Infantry Battalion - 600 Men | | | | | | | | |
| | <u>l in 30</u> | 2 in 30 | 3 in 30 | | | | | |
| Food | 0.5844 | 0.5871 | 0.5895 | | | | | |
| Equipment | 0.1550 | 0.1600 | 0.1650 | | | | | |
| Weapons | 0.0044 | 0.0053 | 0.0062 | | | | | |
| Ammunition | 0.0588 | 0.1176 | 0.1764 | | | | | |
| TOTAL(short tons daily) (Short tons less Food) | 0.8026 | 0.87 0 0 | 0.9371 | | | | | |
| | 0.2182 | 0.2829 | 0.3476 | | | | | |
| NVA Infantry Regiment - 2 | 900 Men | | | | | | | |
| | <u>l in 30</u> | 2 in 30 | 3 in 30 | | | | | |
| Food | 2.3376 | 2.3484 | 2.3580 | | | | | |
| Equipment | 0.6200 | 0.6400 | 0.6600 | | | | | |
| Weapons | 0.0176 | 0.0212 | 0.0248 | | | | | |
| Ammunition | 0.2352 | <u>0.4704</u> | 0.7056 | | | | | |
| TOTAL (short tons daily) (Short tons less food) | 3.2104 | 3.4800 | 3.7484 | | | | | |
| | 0.8728 | 1.1316 | 1.3904 | | | | | |

| NVA | Mortar | Battalion | - 400 Men |
|-----|--------|-----------|-----------|
| | | | |

| NVA MORCAL DATUMINATION - 400 NAM | | | | | | | |
|--|--------------------------------------|--------------------------------------|--------------------------------------|--|--|--|--|
| | <u>l in 30</u> | 2 in 30 | 3 in 30 | | | | |
| Food Equipment Weapons Ammunition | 0.3896 0.1033 0.0053 0.0566 | 0.3914 0.1067 0.0063 0.1132 | 0.3930 0.1100 0.0074 0.1698 | | | | |
| TOTAL(short tons daily) (Short tons less Food) | 0.5548 0.1652 | 0.6176 0.2262 | 0.6802 0.2872 | | | | |
| NVA Recoilless Rifle Battalion - 400 Men | | | | | | | |
| | 1 in 30 | 2 in 30 | 3 in 30 | | | | |
| Food Equipment Weapons Ammunition | 0.3896 0.1033 0.0032 0.0672 | 0.3914 0.1067 0.0038 0.1344 | 0.3930 0.1100 0.0045 0.2016 | | | | |
| TOTAL(short tons daily) (Short tons less Food) | 0.5633 0.1737 | 0.6363 0.2449 | 0.7091 0.3161 | | | | |
| NVA AAA Battalion - 400 | Men | | | | | | |
| · | <u>l in 30</u> | 2 in 30 | 3 in 30 | | | | |
| Food Equipment Weapons Ammunition | 0.3896 0.1033 0.0061 0.0528 | 0.3914 0.1067 0.0073 0.1056 | 0.3930 0.1100 0.0086 0.1584 | | | | |
| TOTAL(short tons daily) (Short tons less Food) | 0.5518 0.1622 | 0.6110 0.2196 | 0.6700 0.2770 | | | | |
| | | | | | | | |

| VC Division - 10,500 Men | | | |
|---|---------------------------------------|--|---------------------------------------|
| | <u>l in 30</u> | 2 in 30 | 3 in 30 |
| Food Equipment Weapons Ammunition | 10.2270 0.5423 0.0699 0.7689 | 10.2740 0.5601 0.0839 1.5378 | 10.3160 0.5775 0.0979 2.3067 |
| TOTAL (short tons daily) (Short tons less Food) | 1.6081 | 12.4558 2.1818 | 13.2981 2.9821 |
| VC Main Force Infantry Ba | attalion - | 500 Men | |
| | 1 in 30 | 2 in 30 | 3 in 30 |
| Food Equipment Weapons Ammunition | 0.4870 0.0258 0.0041 0.0441 | 0.4893 0.0267 0.0050 0.0882 | 0.4913 0.0275 0.0058 0.1323 |
| TOTAL(short tons daily) (Short tons less Food) | 0.5610 0.0740 | 0.6092 0.1198 | 0.6569 0.1656 |
| VC Main Force Infantry F | Regiment - | 2,500 Men | |
| | 1 in 30 | 2 in 30 | 3 in 30 |
| Food Equipment Weapons Ammunition | 1.9480 0.1033 0.0164 0.1764 | 1.9572 0.1067 0.0200 0.3528 2.4367 | 1.9652 0.1100 0.0232 0.5292 |
| TOTAL (short tons daily (Short tons less Food) | 0.2961 | 0.4795 | 0.6624 |

| VC Mortar Battalion - 250 Men | | | | | | | |
|---|--------------------------------------|---|--------------------------------------|--|--|--|--|
| | <u>l in 30</u> | 2 in 30 | <u>3 in 30</u> | | | | |
| Food Equipment Weapons Ammunition | 0.2435 0.0129 0.0020 0.0190 | 0.2446 0.0133 0.0024 0.0380 | 0.2456 0.0138 0.0027 0.0570 | | | | |
| TOTAL(Short tons daily) (Short tons less Food) | 0.2774 0.0339 | 0.2983 0.0537 | 0.3191 0.0735 | | | | |
| VC Recoilless Rifle Battalion - 250 Men | | | | | | | |
| | <u>l in 30</u> | 2 in 30 | 3 in 30 | | | | |
| Food Equipment Weapons Ammunition | 0.2435 0.0129 0.0017 0.0252 | 0.2446 0.0133 0.0021 <u>0.0504</u> | 0.2456 0.0138 0.0024 0.0756 | | | | |
| TOTAL (Short tons daily) (Short tons less Food) | 0.2833 0.0398 | 0.3104 | 0.3374 0.0918 | | | | |
| VC AAA Battalion - 250 Men | | | | | | | |
| | <u>l in 30</u> | 2 in 30 | <u>3 in 30</u> | | | | |
| Food Equipment Weapons Ammunition | 0.2435 0.0129 0.0015 0.0347 | 0.2446 0.0133 0.0017 0.0694 | 0.2456 0.0138 0.0020 0.1041 | | | | |

0.3655

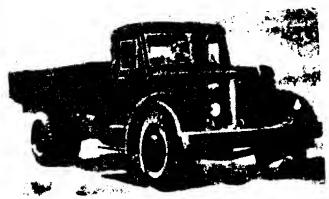
0.3290

0.2926 0.0491

TOTAL (Short tons daily) (Short tons less Food)

| VC Local Force Battalion - 42 | O Men | | |
|---|--------------------------------------|--------------------------------------|--------------------------------------|
| | 1 in 30 | 2 in 30 | 3 in 30 |
| Food Equipment Weapons Ammunition | 0.4091 0.0217 0.0035 0.0376 | 0.4108 0.0224 0.0042 0.0752 | 0.4127 0.0231 0.0049 0.1108 |
| TOTAL (Short tons daily) (Short tons less Food) | 0.4719 0.0628 | 0.5126 0.1018 | 0.5515 0.1388 |
| SAPPER Battalion - 500 Men | | | |
| | 1 in 30 | 2 in 30 | 3 in 30 |
| Food Equipment Weapons Ammunition | 0.4870 0.0258 0.0010 0.0155 | 0.4893 0.0267 0.0012 0.0310 | 0.4913 0.0275 0.0014 0.0465 |
| TOTAL (Short tons daily) (Short tons less Food) | 0.5293 0.0423 | 0.5482 0.0589 | 0.5667 0.0754 |
| Irregular & Local Force - 1 | 00 Man Slice | | |
| | 1 in 30 | 2 in 30 | 3 in 30 |
| Food Equipment Weapons Ammunition | 0.0974 0.0005 0.0007 0.0053 | 0.0979 0.0006 0.0008 0.0106 | 0.0983 0.0007 0.0010 0.0159 |
| TOTAL (Short tons daily) (Short tons less Food) | 0.1086 | 0.1146 0.0167 | 0.1207 0.0224 |

CARRIER CHARACTERISTICS



TRUCK 4X2 MAZ-200

| Weikhi | | | | 14112 | b# |
|-------------------------|-------|------------|------|----------------------|-------|
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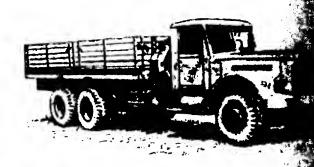
TRUCK 6X6 ZIL-157

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CONCRETE STEELES

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TRUCK HILL THAY-BIC

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| Vehicle Summary: | | prolived | | | |
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| 4x2 Ural ZIS # 355M | 77.00 | 6600 | 11025 | u. mi t _n | |
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| 6x6 Ya AZ 214 | 110000 | 22000 | | 다 함 한 한 건 단 | emf eg tu tu |
| 4x4 MAZ 502 # | | 8600 | 20948 | diesel | 0° |
| 4x2 MAZ 200 # | 151.35 | 11025 | 20948 | diesel | 59 Rel |
| 6x6 ZIL 157 | 0066 | 5500 | 7920 | ស់ ខ្មា ឯប | 40 gal |
| 6x6 ZIL 131 | 1100C | 0099 | | න ක් සැ | |
| 5x4 Ya AZ 21C | 56400 | 22000 | 33000 | diesel | |
| | | | | | |

* The truck mest commenty ebserved in the Lastian Panhandle. It is four wheel drive, Reviet and was designed for traeps and general carge.

Regular observation.

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Forter heruirements:

1. Factors included:

- a. X porters to carry given load.
- b. L losses.
- c. R rest period allowance.
- d. x porters to carry rations.
- 1 losses.
- f. r rest period allowance.

2. Calculations:

b.
$$Z = (X + L) R$$
 where R is $7/6$ or $7/5$.

d.
$$(x+1)r = z = z + z$$
 times daily ration requirement. Porter Capacity

3. Example:

Compute the number of porters required to move 30,000 pounds of rice a distance of 81 miles over mountains using yokes and baskets.

Assumptions: A porter can carry 30 pounds, 9 miles per day by this method (see page 50).

Losses = 18 %.

A day of rest will be given to each porter. Porters require 3 punds of rice per day.

Calculations: X = (30,000)/(30) = 1000 porters

$$Z = (1000 = 180) (7/6) = 1218 \text{ porters.}$$

$$x = (1218)(3)/(30) = 122$$
 porters.

$$z = (122 + 22) (7/6) = 168$$
 porters.

Total requirement: 1218 + 185 = 1403 porters for 9 days.

* * means in the order of magnitude of (or approximately)

lanning Figures

1. Perter dame a yoke and 2 baskets:

| Type Load | , enddage | Lewlands mpd | Neuntains npd |
|----------------------|--------------------------------|-----------------|------------------|
| Seft Heeds (rations) | 55 | . 15 | |
| Soft Geeds (rations) | 30 | | 9 |
| Hard Goods (rmmo) | $l_{\downarrow}l_{\downarrow}$ | 12 | |
| Hard Goods (Ammo) | 32 | | 7 |

2. Ferter using a back pack:

| Type Lead | Peundage | <u>Lewlands</u> mpd | Mountains mpd | |
|----------------------|----------|------------------------|---------------|--|
| Seft Geeds (rations) | 86 | 15 | * | |
| Hard Goods (Ammo) | 46 | | 7월 | |

tpeed of Movement (mph):

| | | <u>NVN</u> | Lac | 05 | Camb | oodia |
|-----------------------|-------|------------|-------|-------|------|-------|
| | Lay | Night | Day | Night | Day | Night |
| Vehicles: | | | | | | |
| Lowlands . | 18-24 | 9-12 | 10-16 | 5-8 | | |
| Mountains | 9-15 | 5-8 | 5-11 | 3-6 | | |
| Forters and Attendant | S | | | | | |
| Lowlands | 3 | 2 | 3 | 2 | 3 | 2 |
| Mountains | 2 | 1 | 2 | 1 | 2 | 1 |

Carrying Capacities:

| Carrier | Capacity | |
|---------------|----------|--|
| Marele | 5:00 lbs | |
| Magen, pushed | 500 lbs | |
| hagen, pulled | 500 lbs | |
| Ox cart | 500 lbs | |
| Elephants | 500 lbs | |
| Water Buffale | 250 lbs | |

Methods of Packaging and Transporting Supplies:

- 1. Rice: 220 lb bags or sacks
- 2. Mice: 22 to 33 lo tubes
- 3. Jalt: same as rice
- 4. Ammunition: 50 lb wooden boxes
- 5. Fuel: 5 gal cans, 55 gal drums
- 6. Other foods: in sacks or bags of variuos sizes
- 7. Medicine: bottled or syrettes small enough to be hidden on a person
- 8. Chemicals: a. Saltpeter: 220 lb units
 - b. Sulphur: 110 to 220 lb units
 - c. Mercury: 22 1b units
 - d. Acid: liter bottles





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